

Patent Abstracts of Japan

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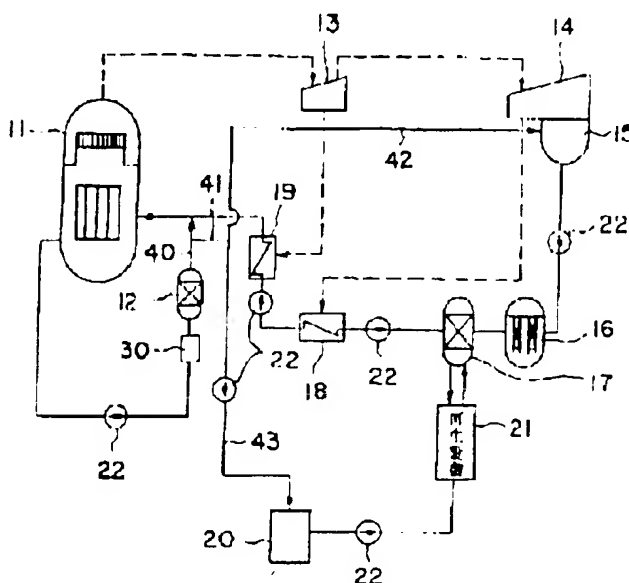
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TITLE : WATER TREATMENT EQUIPMENT OF  
BOILING WATER TYPE NUCLEAR  
POWER GENERATING PLANT



ABSTRACT : PROBLEM TO BE SOLVED: To prevent the shortening of life of an ion exchange resin of a condensate demineralizer by providing decomposing means for decomposing hydrogen peroxide in an nuclear reactor water on the upstream of a reactor water demineralizer.

SOLUTION: On the upstream side of a reactor water demineralizer 12 of a circular system of nuclear reactor water, for example, hydrogen peroxide decomposing means 30 having synthetic carbonaceous adsorption material is disposed. Therefore, hydrogen peroxide remaining in the nuclear reactor water is contacted, decomposed, and removed by decomposing means 30. Consequently, the nuclear reactor water exceeds a reference water level in a nuclear reactor 11 at an initial stage during startup, and excessive nuclear reactor water is supplied from the downstream of a demineralizer 12 to a condenser 15 and a condensate tank 20 via pipes 41, 42, and 43. Since hydrogen peroxide does not remain in the nuclear reactor water, even if condensate is communicated with a condensate demineralizer 17, there is no worrying about oxidizing and degrading cationic exchange resin being used, and the life of the cationic exchange resin can be prevented from shortening.

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